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PRODUCTION OF SPHERICAL WATER-CONTAINING GEL

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Inventor(s): FUJII HIROAKI;; BABA YASUHIRO;; KAMATA TOSHIMI;; OKA KEIKO
Applicant(s): KURARAY CO LTD
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Abstract

PROBLEM TO BE SOLVED: To obtain the subject gel which shows a good inhabitation of microorganisms, increased durability and is useful as a support for waste water treatment by spheroidizing liquid drops of a specific mixed aqueous solution and actualizing the drops.

SOLUTION: Liquid drops containing (A) polyvinyl alcohol and (B) a water-soluble alginate salt are brought into contact with an aqueous solution containing (C) an aldehyde and (D) an acid to make the liquid drops spherical and simultaneously effect actualization. For example, in the component A, the average polymerization degree is set to $\geq 1,000$, the saponification degree is set to $\leq 95\text{mol}\%$, and the concentration is set to 1-40wt.%. As the component B, sodium alginate is used in a concentration 1-10wt.%, glyoxal is used as the component C and hydrochloric acid or the like is used as the component D.

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